

Comparisons of Job Characteristics

Focus Occupation: Tool Grinders, Filers, and Sharpeners (51-4194)

Associated Occupation: Machinists (51-4041)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 94

Focus Occupation: Tool Grinders, Filers, and Sharpeners (51-4194)

Associated Occupation: Machinists (51-4041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	18.0	12.6	<<	Extensive education and/or training may be required
Mathematics	9.2	14.2	6.1	<<	Extensive education and/or training may be required
Production and Processing	6.0	12.7	11.1	<	Expanded education and/or training may be required
Design	5.2	11.2	7.1	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	10.2	7.9	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Tool Grinders, Filers, and Sharpeners (51-4194)

Associated Occupation: Machinists (51-4041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Quality Control Analysis	5.9	12.6	10.8	<	A higher skill level may be required
Operation Monitoring	6.6	12.0	12.9	0	Current skill level may be sufficient
Operation and Control	5.4	11.1	11.1	0	Current skill level may be sufficient
Troubleshooting	4.5	10.2	9.2	<	A higher skill level may be required
Equipment Maintenance	3.5	9.3	11.1	>	Skill level is likely sufficient
Equipment Selection	3.3	8.6	8.6	0	Current skill level may be sufficient
Repairing	3.4	8.5	10.6	>	Skill level is likely sufficient

Installation	1.7	6.0	1.2	<<	Extensive development of skills in this area may be required
Technology Design	2.6	6.0	3.1	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 91				
Focus Occupation: Tool Grinders, Filers, and Sharpeners (51-4194)						
Associated Occupation: Machinists (51-4041)						
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation		
Control Precision	6.6	13.3	12.3	0	Current ability level may be sufficient	
Finger Dexterity	7.6	11.6	12.7	0	Current ability level may be sufficient	
Manual Dexterity	6.5	11.1	12.8	>	Current ability level is likely sufficient	
Multilimb Coordination	6.0	10.7	9.2	<	Some improvement in abilities may be required	
Reaction Time	4.8	10.1	10.4	0	Current ability level may be sufficient	
Hearing Sensitivity	5.6	9.3	9.1	0	Current ability level may be sufficient	
Rate Control	3.8	8.6	9.1	0	Current ability level may be sufficient	
Wrist-Finger Speed	3.2	7.3	6.6	<	Some improvement in abilities may be required	
Sound Localization	2.2	6.2	3.4	<<	Extensive improvement in abilities may be required	
Speed of Limb Movement	3.2	6.1	4.1	<<	Extensive improvement in abilities may be required	

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 97
Focus Occupation: Tool Grinders, Filers, and Sharpeners (51-4194) Associated Occupation: Machinists (51-4041)		
Work Activities	Exclusivity of Activity	
Adjust production equipment/machinery setup	25	
Examine products or work to verify conformance to specifications	15	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Identify base metals for welding	68	
Load or unload material or workpiece into machinery	34	
Maintain or repair industrial or related equipment/machinery	39	
Monitor production machinery/equipment operation to detect problems	27	
Move or fit heavy objects	8	
Operate metal or plastic fabricating equipment/machinery	54	

Perform safety inspections in manufacturing or industrial setting	33
Read blueprints	10
Read specifications	23
Read technical drawings	7
Recognize characteristics of alloys	71
Recognize characteristics of metals	62
Set up production equipment or machinery	51
Understand machine setup instructions	74
Understand technical operating, service or repair manuals	6
Use arc welding equipment	62
Use hand or power tools	2
Use precision measuring tools or equipment	17
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Tool Grinders, Filers, and Sharpeners (51-4194)

Associated Occupation: Machinists (51-4041)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.